Four years after its creation, the wildered by the concept itself-and wildered. It has become obvious that Canadian Ministry of Science and abashed by the way in which it was so many changes are taking place so Technology is to be reorganised. News being carried out. And as for com- rapidly, he said, that no one has a of the change was given by the munication on the subject between good grasp of where we are collectively Minister of State for Science and Tech- scientists and government, he said: nology, Mr C. M. Drury, at the "You have about as much chance of all clearly, it is most unlikely that he thirteenth Pacific Science Congress. getting through as if you were reciting could do anything about it. World "The ministry's job has been to advise Gaelic poetry to a deaf seagull." the government on how science and technology can be used and developed Archimedes", because, he said, interest evolution. There are so many scientists, to the best advantage of Canada", he in science policy goes back a long way: and communications have become so said. 'This is a difficult task and we "For example, Archimedes used his good, that problems are perceived, have learned much about the capabili- talents in many ways in the service of attacked, solved and the solutions ties of such a horizontal ministry in his native city of Syracuse, particularly applied almost before most of us are the four years of its existence. Based in times of war, and presumably the aware of them . . . Science policy has on this experience the ministry is now king of Syracuse thus had a 'science become a curiously all-pervasive and being re-organised in order to enable it to function more effectively."

It will be organised at the working level to communicate with the three principal segments of the scientific community-universities, industry and government and will include the many professional and learned societies. The ministry's policy-making role was de- policy'-which was, 'Ask Archimedes'." fined by Mr Drury in two categories: major continuous policy assignments Canada's science policy for 50 years with long-term implications, such as was "me too", meaning that it simply development of a national capacity to copied the policies of other countries, national capital often gives the imstudy and assess the impact of science "And its implementation was accom- pression of being a full time continuous and technology on society; and de- plished when C. D. Howe, the 'minister scientific conference in which everyvelopment of policies and programs of everything', played golf with C. J. for the co-ordinated and large-scale use Mackenzie, who, as the President of of scientific resources beyond the scope the National Research Council, was the of a single agency or government, such architect of the national determination as the oceans policy.

"The job of the ministry", said the sources." minister, "is not to displace or duplicate the roles of existing departments ports were published on the national and agencies in science, engineering and scientific effort. "Virtually every report formalising what has already happened, technology. Nor will we try to become by a committee or task force on science a sort of national oracle for science, policy in the last 20 years has had someissuing decrees on what scientists in thing to say about the failures in government should and should not be coordination, communication, and indoing."

• A discussion on Canadian science duplication, policy showed how far apart the bureaucratisation. bureaucrats and ordinary scientists are. recent reports sound very like the older While the Minister outlined precisely ones, it seems likely that either no one about communication between scienwhat science policy meant to the reads the reports or, if they do, they tists and government "cynical", and government, the Dean of the Uni- pay little attention." versity of British Columbia's Faculty of Graduate Studies, P. A. Larkin, of science policy thinking, Larkin munication, and that one task of his declared himself confused and be- declared

switch some of its production to an entirely new automobile concept. The big car makers have, after all, raised enough complaints about the relatively minor production changes necessary to meet air pollution standards.

Those obstacles to commercial production are the chief factors which prompted the House of Representatives to approve massive federal support for a research and development effort last week. The bill, which was largely the work of Representative Mike McCormack, instructs the Energy Research and Development Administration to

Science in Canada

from David Spurgeon, Ottawa

On the other hand, said Larkin, to build scientific intellectual

Later, Larkin continued, many retegration; and the frightful sins of reality never realising they are like the procrastination. Since the

himself-and

headed. "Even if someone could see it wide, science and technology are in a Larkin called his address "Ask state of extremely rapid and turbulent eclectic exercise in which it is increasingly difficult to judge whether you are worrying about the right thing."

Furthermore, said Larkin, most reports concerned with science policy are obsolete by the time they are published. Few read them any more. Most are 'essentially a condensed summary of a consensus that has not only been reached but partly implemented before the report is made public. With several such studies going on at once, the body is writing papers and no one is attending the sessions at which the papers are presented."

The committee, task forces, comre- missions and the senior Civil Service, said Larkin, "move along close to the margin of what almost seems uncontrollable change, documenting and arguing a bit about who thought of it first (when none of them did), performing the apparently essential tasks of administering and reorganising, but in and bubbles in beer, produced by pressures most that are quite incomprehensible."

Mr Drury called Larkin's comments said that some institutions and mech-Outlining some of the main thrusts anisms already existed for such comothers-be- ministry was to devise other methods.

devote more money to developing advanced battery technology. But the heart of the measure is a demonstration programme through which the federal government will underwrite the costs of at least 7,500 electric cars during the next five years.

The purpose of the demonstration programme, according to a report written by the House Science and Technology Committee, "is to get present and future state-of-the-art electric vehicles out into every region of the country". They will be used in federal, state and local government fleets, by businesses and by individuals, to gain experience of driving performance, maintenance costs and so on. An important aspect of the operation, however, is that it will provide an incentive for industry to set up the production facilities, which should pave the way for mass production later.

The bill was passed easily by the House-by 308 votes to 60-and the Senate Commerce Committee will hold hearings on a similar measure early next month.

It is expected that the Senate will also pass it easily.